

## Glossary

<b>barycenter</b>	The center of mass of a system of particles or bodies.
<b>coherent</b>	Pertaining to two radio signals in a relationship such that one is an exact numeric multiple of the other.
<b>declination</b>	In astronomical spherical coordinates, the angle above or below the plane passing through the origin of the coordinate system and normal to the polar axis.
<b>ecliptic</b>	The plane containing the orbit of Earth about the Sun.
<b>ephemeris</b>	A representation of the position, within a defined reference system, of a planet, moon, or spacecraft as a function of time.
<b>epoch</b>	An instant in time that defines an event.
<b>fiducial station</b>	A tracking station whose location is held fixed for the purposes of data processing.
<b>maser</b>	A microwave device that, when stimulated by a weak signal, will emit a stronger signal at a related frequency. Derived from <i>microwave amplification by stimulated emission of radiation</i> .
<b>mean equator and equinox</b>	Reference frame models that account for only precession.
<b>nutation</b>	The short-period (a few decades or less) motion of Earth's spin axis, expressed in inertial coordinates.
<b>observable</b>	A quantity, such as time or distance, determined from a measurement.
<b>phase-locked loop</b>	An algorithm to adjust a local reference signal so that it maintains a constant phase relationship with an input signal.
<b>plane-of-the-sky</b>	A plane containing the spacecraft that is orthogonal to the line of sight from the observer to the spacecraft.
<b>precession</b>	The long-period (centuries) motion of Earth's spin axis, expressed in inertial coordinates.

<b>quasar</b>	A quasistellar extragalactic object that emits powerful radio waves.
<b>residual</b>	The difference between an observed and a modeled value.
<b>right ascension</b>	In astronomical coordinates, the angle about the polar axis, measured from a defined origin.
<b>topocentric</b>	Pertaining to a measurement from the surface of a reference body.
<b>true equator and equinox</b>	Reference frame models that account for both precession and nutation.